

Inlet Branch (RTL)

Conducts experimental and analytical research directed at the aerodynamic design and integration of advanced inlets for subsonic, supersonic, and hypersonic aircraft. Research consists of analysis and test of inlets and other special components, and can include evaluation of full propulsion systems. Analytical solutions (from user-friendly analytical codes) and validation data are required to define basic flow properties, predict component performance and investigate specific phenomena including shock systems, boundary layers, bleed, diffusion, separated flows, heat transfer, cooling, spillage, acoustics and stability.

